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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/633,145 07/31/2003		Ken L. Chang	K35A1301	5429	
35219 7	590 03/03/2005		EXAMINER		
	DIGITAL TECHNOLOG	BLOUIN, MARK S			
	FOREST DRC205 T, CA 92630	ART UNIT	PAPER NUMBER		
	,		2653		
			DATE MAIL ED: 02/02/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	cation No.	Applicant(s)				
		10/63	3,145	CHANG ET AL.				
Offic	e Action Summary	Exam	iner	Art Unit				
			Blouin	2653				
The MA Period for Reply	ILING DATE of this commur	ication appears or	the cover sheet with the d	correspondence ad	idress			
THE MAILING - Extensions of time after SIX (6) MON' - If the period for reg - Failure to reply wit Any reply received	D STATUTORY PERIOD F DATE OF THIS COMMUN may be available under the provisions THS from the mailing date of this comr ply specified above is less than thirty (3 ply is specified above, the maximum si thin the set or extended period for reply by the Office later than three months of adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In a nunication. so) days, a reply within the atutory period will apply a will, by statute, cause the	no event, however, may a reply be tir e statutory minimum of thirty (30) day nd will expire SIX (6) MONTHS from e application to become ABANDONE	nely filed s will be considered time the mailing date of this of (35 U.S.C. § 133).				
Status								
1) Respons	ive to communication(s) file	ed on						
		2b)⊠ This action	is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Cla	nims							
4a) Of the 5) ☐ Claim(s) 6) ☑ Claim(s) 7) ☐ Claim(s)	· <u> </u>							
Application Paper	rs							
9) The speci	9)☐ The specification is objected to by the Examiner.							
10)□ The draw	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
<u> </u>	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35	U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of Referen			4) Interview Summary	(PTO-413)				
	erson's Patent Drawing Review (F osure Statement(s) (PTO-1449 or Date <u>7/31/03</u> .		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		O-152)			

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Detailed Action

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention:

The phrase "... being an integer in a range *between* 2 to 3." (Claim 1, line 14 and Claim 5, line 19) does not include endpoints 2 and 3. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Loubier
 (USPN 5,656,877) in view of Budde et al (USPN 6,728,073)
- 5. Regarding Claims 1-8, Loubier shows (Figs. 1-4), a disk drive comprising a disk drive base, a spindle motor attached to the disk drive base, a disk supported on the spindle motor, a head stack assembly rotatably coupled to the disk drive base, the head stack assembly including a stamped actuator arm (40), a coil portion (20) attached to the stamped actuator arm a head gimbal assembly (Col 3, line 55) attached to the stamped actuator arm (Col 3, lines 55-58), the

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head gimbal assembly including a trace suspension flex having a metal base layer and a plurality

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of conductors supported by the metal base layer (Col 5, lines 7-10), the stamped actuator arm including a bore defining a pivot axis (52), an actuator arm side surface extending lçngitudinally along the stamped actuator arm, and a plurality of longitudinally spaced apart stamped protrusions for supporting the trace suspension flex (See Examiner's Drawing), each stamped protrusion extending from the actuator arm side surface in a direction generally perpendicular to the pivot axis, but does not show the plurality of stamped protrusions being an integer in a range between 2 to 3, wherein the integer is 2 or 3, wherein the stamped protrusions are generally equally spaced apart longitudinally along the actuator arm side surface.

Budde et al shows (Fig. 4) the plurality of stamped protrusions being an integer in a range between 2 to 3, wherein the integer is 2 or 3, wherein the stamped protrusions are generally equally spaced apart longitudinally along the actuator arm side surface.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the actuator arm of Loubier with 2 to 3 equally spaced protrusions as taught by Budde et al. The rationale is as follows: One of ordinary skill in the art at the time the invention was made would have been motivated to provide the actuator arm of Loubier with 2 to 3 equally spaced protrusions as taught by Budde et al in order to support the trace suspension flex.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Blouin whose telephone number is (703) 305-5629. The examiner can normally be reached M-F, 6:00 am – 3:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful the examiner's supervisor, William Korzuch can be reached at (703) 305-6137. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314 for regular and After Final communications.

Any inquiry of general nature or relating to the status of application or proceeding should

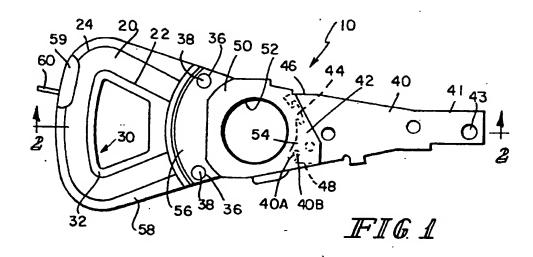
be directed to the receptionist whose telephone number is (703) 306-0377.

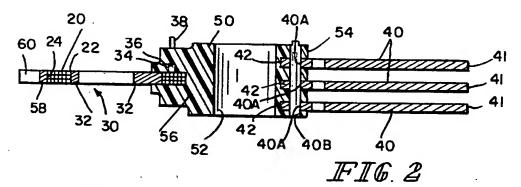
Mark Blouin

Patent Examiner Art Unit 2653

February 28, 2005

WILLIAM KLIMOWICZ PRIMARY EXAMINER





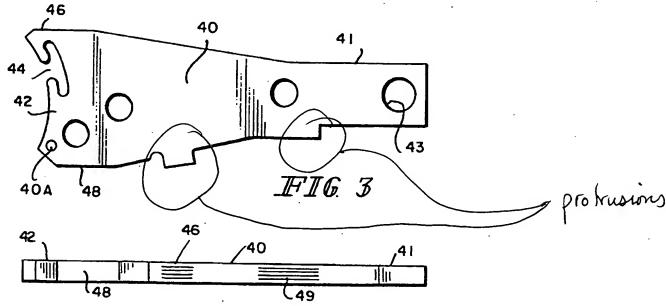


FIG. 4

EXAMINER'S DRAWING